



A Latent Class Growth Analysis Approach to Parenting: Differential Associations With Externalizing Problem Behavior

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BACKGROUND

- Research shows that five parenting dimensions can be distinguished (Janssens et al., 2015).
 - Parental support, proactive control, punitive (non-physical) control, harsh (physical) control, and psychological control.
- It is likely that there is heterogeneity in the developmental trajectory of different parenting dimensions.
- Parenting is associated with externalizing problem behavior across adolescence.
 - Support and proactive control are associated with a decrease in externalizing behavior (Pettit, Laird, Dodge, Bates, & Criss, 2001; Stice, Barrera, & Chassin, 1993).
 - Punitive, harsh punitive, and psychological control are associated with an increase in externalizing behavior (Gershoff & Grogan-Kaylor, 2016; Larzelere, Cox, & Smith, 2010; Pettit, Laird, Dodge, Bates, & Criss, 2001).

OBJECTIVES

- To assess whether there are **meaningful trajectory classes** for parenting dimensions across adolescence, and whether this classification is different for mothers and fathers.
- To assess how these trajectory classes are associated with externalizing problem behavior at the age of 12, and with the development of externalizing problem behavior between 12 and 17 years.

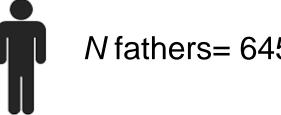
METHODS

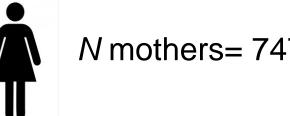
- Four-wave accelerated longitudinal design with a one-year interval between waves. This results in an age range from 12 to 17.
- Parenting is assessed through questionnaires with both fathers and mothers as informant.

- Externalizing problem behavior as reported by adolescents - Youth Self-Report (YSR, Achenbach, 1991):

Aggressive Behavior Rule Breaking Behavior

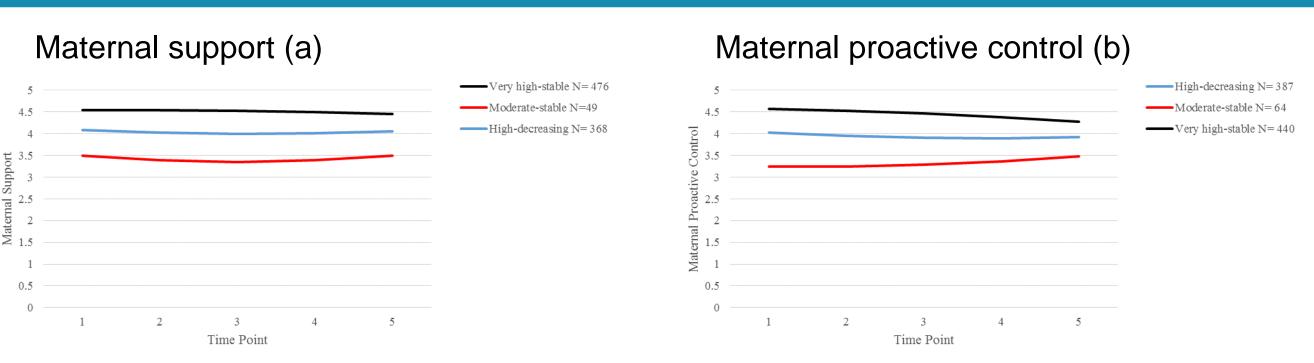
51% Boys





- Latent Class Growth Analysis (LCGA) on separate parenting dimensions as reported by mothers and fathers separately.
- Conditional growth models for rule breaking behavior and aggressive behavior separately, with time-invariant categorical predictors, that indicate membership to the trajectory classes. Predictors were included per parenting dimension and per parent.

RESULTS



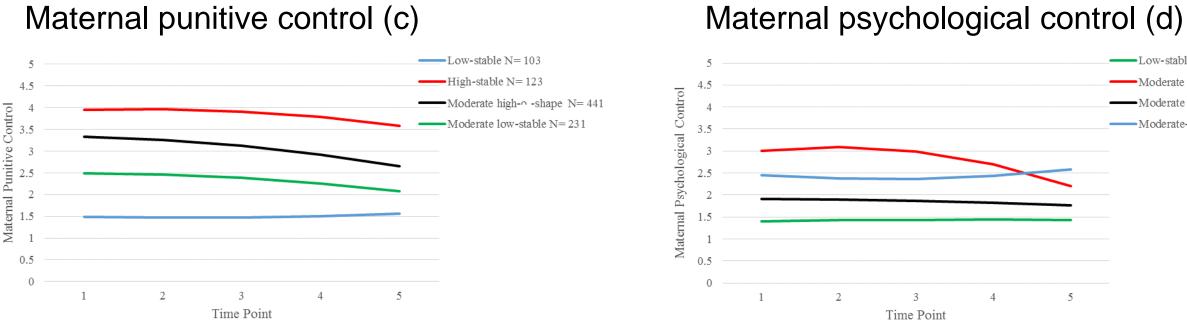
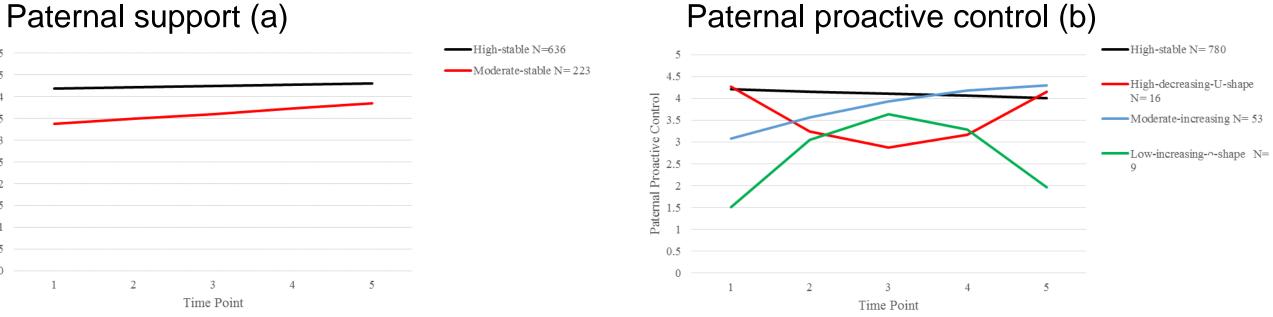


Figure 1. Trajectory classes in parenting dimensions based on mother reports



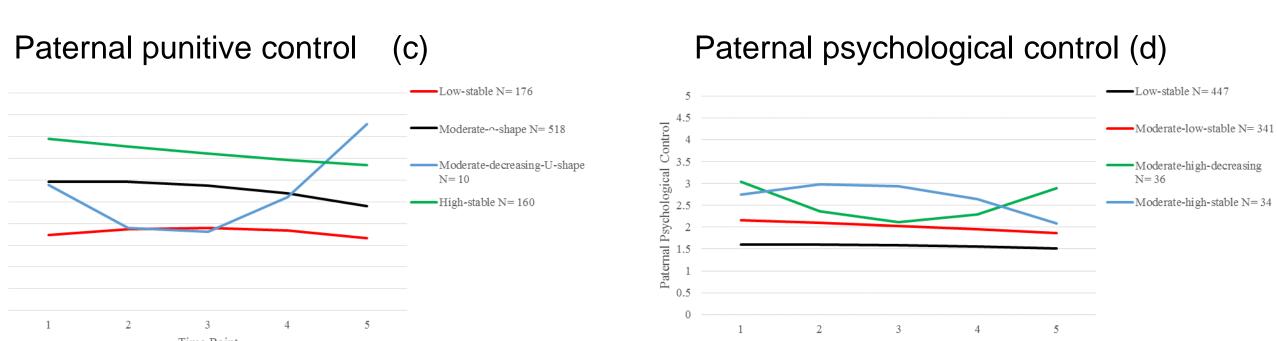


Figure 2. Trajectory classes in parenting dimensions based on father reports Note. LCGA did not identify trajectory classes for harsh punishment for mothers' and fathers' reports.

Table 1. Results from the conditional growth models (only significant results)

DV	Predictor	β		β
	Mother report		Father report	
AB age 12	(sup) Moderate-stable	0.256**	(psycon) Moderate low-stable	0.188**
	(sup) High-decreasing	0.196**	(psycon) Moderate high-stable	0.162**
	(psycon) Low stable-U-shape	0.230**		
RBB age 12	(sup) Moderate-stable	0.260**	(procon) Moderate-increasing	-0.370*
	(sup) High-decreasing	0.180*	(puncon) High-stable	-0.203*
	(procon) High-decreasing	-0.059**		
	(puncon) Low-stable	-0.211**		
	(puncon) Moderate low-stable	-0.200*		
	(psycon) Moderate high-stable	-0.202**		

Note. Support = parental support; procon = proactive control; puncon = punitive control; psycon = psychological control; * p< .004 (cut-off obtained by applying Bonferroni correction); ** p< .001. Black lines represent the reference group.

CONCLUSIONS

- Meaningful trajectory classes can be distinguished.
 - Trajectories of paternal parenting seem less stable than maternal parenting.
 - Less stable paternal trajectory classes are also the smallest.
- Beneficial effects of Support.
 - Relative small differences in support already impact AB and RBB.
- Proactive control is associated with a higher RBB at age 12.
 - The extent and consistency of rule setting and monitoring seem to play a role.
- Non-physical punishment is associated with a higher RBB at age 12.
- Maternal psychological control is associated with a higher AB and RBB at age 12, whereas paternal psychological control is associated with a higher AB at age 12.

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